

# Daily GLOWBUGS

## Digest: V1 #122

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

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**Subject:** glowbugs V1 #122  
**glowbugs**                      **Sunday, September 28 1997**                      **Volume 01 : Number 122**

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Date: Fri, 26 Sep 1997 17:14:59 -0700 (PDT)  
From: "Tom R. Rice" <tomrice@netcom.com>  
Subject: Re: 6N7 vs. 6SN7

>  
> Another possible fly in the ointment is the fact that both triode sections  
> share a common cathode. I have found this to be a big problem in some  
> circuits.

In this regard, note the error in the Rockey Regen Book  
where Rockey recommends a 6N7, but the circuit clearly  
shows two separate cathodes. One section of the tube  
serves as a grounded-grid amp, the other does the regenning.  
A mere typo, I'm sure.

I'm building with 6SN7 substitutes, although I'm assured  
by an "expert" I know locally that I'm gonna lose  
substantial HF response, i.e., above 40 meters.

We'll see.....

73 de WB6BYH

- --  
"Start off every day with a smile and get it over with." --W.C.Fields  
Tom R. Rice  
tomrice@netcom.com

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Date: Fri, 26 Sep 1997 19:20:00 -0500  
From: w5hvv@aeneas.net (Rod Fitz-Randolph)  
Subject: Regens

As old an ol' fogey as I am, I haven't heard the term choke condenser  
until recently and I have only the fogiest idea as to what it might be.  
I've always used the potentiometer to vary the screen voltage (which I  
now understand is secondary in preference to the choke condenser).

Could someone illuminate this Ol' Coot?

Thanks,

Rod, N5HV  
w5hvv@aeneas.net

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Date: Fri, 26 Sep 1997 20:33:40 -0400 (EDT)  
From: JMarti1594@aol.com  
Subject: Re: Regens

I love this group could someone send me a schematic for a regen so i can get  
in the fun thanks scott kb9nyw

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Date: Fri, 26 Sep 1997 20:49:36 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: Book reprint news

Hi!

Response has been overwhelming--20 so far! So I'll be getting an estimate from Kinko's and probably start having 'em printed up if it's not too unreasonable.

As soon as I find out what it'll cost, I'll post the price. Then e-mail enquires will be responded to with my postal address. My usual procedure is payment in advance; there's not a lot of capital to tie up, so I have small runs (a dozen or so) done at a time. I can bankroll that many, and then the first batch of checks roll over and bankroll the rest. (Can you say "shoestring?" For sure....)

Thanks, guys! As I've already got the "master" in-hand, it won't take too long to white-out the things I missed first go-round, and get the printing process underway.

73,  
--Bobbi

(At least one more book project is on the layout table, but it's still a ways off. Details when it gets closer to completion. Another reprint, this time a compilation of articles from QST of the '30s--anybody know what the copyright status would be, or who to talk to at ARRL about it?)

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Date: Sat, 27 Sep 1997 00:43:58 -0400 (EDT)  
From: EricNess@aol.com  
Subject: 1950 Ocean Hopper

W5HVV asked about the schematic and parts list for the Knight "Ocean Hopper". Well, as it turns out I found an excellent write up on the Ocean Hopper in an old magazine called the Radio Experimenter dated 1950.

I imagine the Ocean Hopper design changed a bit over the years but, the 1950 version was a two tuber, a 12J5 triode as the detector and a 117P7 as the rectifier and audio amp. As one might guess whenever a 117 volt tube is used, the original design is transformerless. An interesting twist is that the heaters of both tubes are connected in series to "simplify the circuit and give the tubes a longer life."

The regeneration in this design is controlled by a potentiometer which varies the plate voltage to the detector (and thus the gain of the tube). In my experience, this technique works well if you are listening to powerful broadcast stations. However, a lower plate voltage will result in reduced sensitivity.

For my October regen, I plan to build a version of the famous Ocean Hopper. I will add an isolation transformer, filter choke to the B+ supply and modify the detector to use a throttle condenser.

If anyone would like a copy of the Ocean Hopper magazine article which includes a schematic and parts list, please drop me an email. Unfortunately, there is no coil winding data but, we can trade notes as we cut and try coils of our own design.

73, Eric WD6DGX

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Date: Fri, 26 Sep 1997 23:23:05 -0600 (MDT)  
From: Shane <toyboat@freenet.edmonton.ab.ca>  
Subject: Hartleys, #45, 6SN7, 6L6

Hello,

Thought I would bounce this idea off the group.

R.D. Keys version of the George Grammer 1932 Hartley uses a 6SN7 to replace the #45 power triode. The twin 6J5 (improved) sections are paralleled to provide a smallish, but cost-effective and easily available power triode.

It has been mentioned that the modernish and squat looks of this

war-child are esthetically annoying for a 1932 Hartley. Could not a pear-shaped 6L6 glass unit be used with its screen tied to the plate? In this triode connection it compares very favorably to the original #45 as a low-mu power triode and looks good too. As with the 6SN7, the bias resistor needs to be changed for the circuit, but the 6L6 as triode seems a not-too-pricey and easily-available;;D\*-!wt6

c7Y #45  
substitute.

Then you just have to forget that it's really a beam power pentode so you can dream audion dreams :-).

Regards,  
Shane Wilcox

~~~~~  
Shane <toyboat@freenet.edmonton.ab.ca>  
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Date: Sat, 27 Sep 1997 10:49:24 +0000  
From: janax@mail.li.icl.se  
Subject: Tube for a regenny?

Hello.

Last night I dug really deep into my junkenboxen, all the way down to the pile of really old tubes. I found a Philips A425 which is a direct heated triode with a British B4 base. All I have on this is an entry in the tube tester book. I tested it and it works! Gm is just below 1 mA/V at 200V/4mA and -2.5V. Filament 4 volts. Tube tester book said 200V/0.25mA at -2.5V so something is a bit off. The tube is also marked 3.4-4V and 15-120V.

This tube would perhaps be a nice candidate for a detector in a regenny. Before going to manufacture a holder for it... does anyone have a British B4 or B5 tube holder for sale? I have one on the tester but...

Finally, do anyone of you know anything about this tube?

Cheers,  
Jan, SM5GNN

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Date: Sat, 27 Sep 1997 10:13:56 -0700 (PDT)  
From: Ken Gordon <keng@uidaho.edu>  
Subject: Re: Hartleys, #45, 6SN7, 6L6

> war-child are esthetically annoying for a 1932 Hartley. Could not a  
> pear-shaped 6L6 glass unit be used with its screen tied to the plate?  
> In this triode connection it compares very favorably to the original  
> #45 as a low-mu power triode and looks good too. As with the 6SN7, the  
> bias resistor needs to be changed for the circuit, but the 6L6 as  
> triode seems a not-too-pricey and easily-available;;D\*-!wt6

Seems to me that the old 6F6 would make even a better version of this idea since it was not a beam tube, and it is usually much cheaper than a 6L6. I have not seen any in envelope types other than ST either.

Ken W7EKB

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Date: Sat, 27 Sep 1997 17:51:57 -0500  
From: w5hvv@aeneas.net (Rod Fitz-Randolph)  
Subject: Re: Regens

Rod Fitz-Randolph, N5HV, wrote:

>> As old an ol' fogey as I am, I haven't heard the term choke condenser  
>> until recently and I have only the fogiest idea as to what it might be.  
>> I've always used the potentiometer to vary the screen voltage (which I  
>> now understand is secondary in preference to the choke condenser).  
>>  
>> Could someone illuminate this Ol' Coot?

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Jim Glover, WB5UDE, responded:

>I believe you mean "throttle condensor".  
>  
>Sorry...no answers to your question here...  
>  
>--Jim WB5UDE

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Rod Fitz-Randolph counter-responded:

Hmmmmmm! Ur rite! Howsomever, when I throttle someone, I usually choke  
'em.... same, same to us Ol' Coots!!! (I always did have trouble with  
my words). My Ohio Valley Indian ancestor would say, "He fell and impaled  
himself on his tongue".

Best Regards,

Rod, N5HV  
w5hvv@aeneas.net

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Date: Sun, 28 Sep 1997 04:30:29 +0000  
From: Sandy W5TVW <ebjr@worldnet.att.net>  
Subject: FS/FT: SBA-312 Marine SSB

Sideband Associates SBA-312 SSB transceiver, 12 channels, 2-16 mhz.  
working, good finals, 100 watts out. Cosmetically about a 5-6. 115 vac model.  
With photocopy of manual. \$50 plus shipping/packing.

Trade for a good RAK receiver less power supply to someone within  
driving  
distance of New Orleans or someone going to Belton Hamfest.

73,  
E. V. Sandy Blaize, W5TVW  
"Boat Anchors collected, restored, repaired, traded and used!"  
417 Ridgewood Drive  
Metairie, LA., 70001

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End of glowbugs V1 #122  
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Created by **Steve Modena, AB4EL**  
Comments and suggestions to [modena@SunSITE.unc.edu](mailto:modena@SunSITE.unc.edu)

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